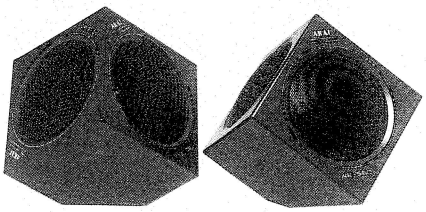
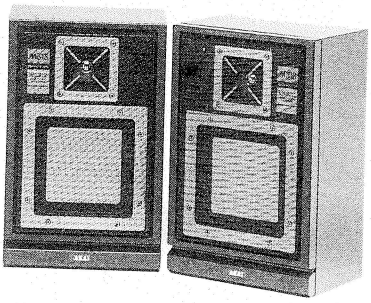
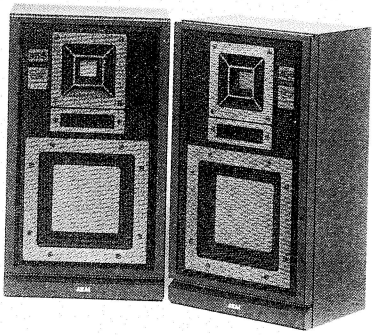
AKAI SERVICE MANUAL



AE-S90



SW-M313



SW-M515

LOW FLUX RADIATION TYPE SPEAKER
MODEL AE-S90

LOW FLUX RADIATION TYPE 2-WAY SPEAKER SYSTEM
MODEL SW-M313/SW-M515

I. SPECIFICATIONS

ITEM \ MODEL	AE-S90	SW-M313	SW-M515
SYSTEM	1 way, 1 speaker + Passive Radiator	2 way, 2 speakers	2 way, 2 speakers
RATED IMPEDANCE	8 ohms	8 ohms	8 ohms
RATED POWER INPUT (DIN)	25W	45W	60W
MAXIMUM POWER INPUT	50W	80W	100W
OUTPUT SOUND PRESSURE LEVEL	86 dB/W at 1m	88 dB/W at 1m	90 dB/W at 1 m
FREQUENCY RANGE	150 Hz to 15,000 Hz	50 Hz to 25,000 Hz	45 Hz to 25,000 Hz
CROSS-OVER FREQUENCY	—	3,500 Hz	3,000 Hz
CROSS-OVER NETWORK	—	6 dB/oct	12 dB/oct
SPEAKERS WOOFER	10 mm cone type	160 mm square shaped Flat Diaphragm	160 mm square shaped Flat Diaphragm
TWEETER	—	66 mm cone type	47 mm square shaped Flat Diaphragm
	10 mm cone type passive radiator		
CABINET DIMENSIONS	140(W) × 140(H) × 140(D) mm (5.5 × 5.5 × 5.5 inches)	230(W) × 360(H) × 170(D) mm (9.0 × 14.2 × 6.7 inches)	260(W) × 456(H) × 195(D) mm (10.2 × 17.9 × 7.7 inches)
GRILL PANEL	Fixed Grill	Fixed Grill	Fixed Grill
ENCLOSURE TYPE	Closed (Passive Radiator) type	Closed type	Bass Reflex type
WEIGHT	0.95 kg (2.1 lbs)	4 kg (8.8 lbs)	6 kg (13.2 lbs)

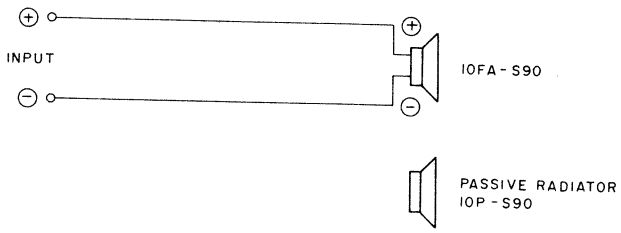
* For improvement purposes, specifications and design are subject to change without notice.

II. PARTS LIST

III. SCHEMATIC DIAGRAMS

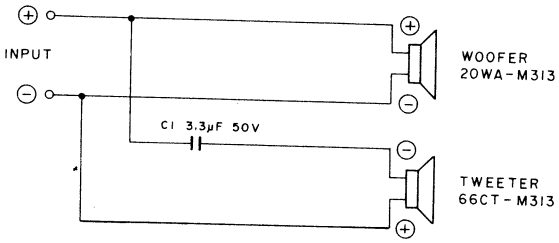
AE-S90

REF. NO.	PART NO.	DESCRIPTION
1-1	TS-718028	CABINET AE-S90
1-2	TS-718029	BOARD BACK
1-3	SS-718030	SPEAKER CONE 10FA-S90 8OHMS 100MM
1-4	SS-718032	PASSIVE RADIATOR
1-5	ZS-718034	SCREW TAPPING 40 x 08 (SPEAKER FIX)
1-6	SS-718035	SCREW TAPPING 40 x 16 BNI (BOARD BACK FIX)
1-7	EW-718022	CORD SPEAKER W/RCA PIN PLUG
1-8	TS-718024	STAND
1-9	ZS-718025	SCREW (STAND FIX)



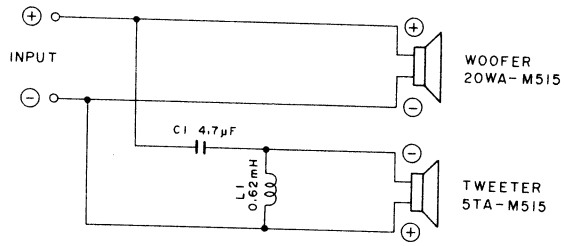
SW-M313

REF. NO.	PART NO.	DESCRIPTION
1-1	TS-717714	GRILLE FRONT LEFT SW-M313
1-1-B	TS-717712	GRILLE FRONT LEFT-B SW-M313-B
1-2	TS-717713	GRILLE FRONT RIGHT SW-M313
1-2-B	TS-717711	GRILLE FRONT RIGHT-B SW-M313-B
1-3	SS-717717	SPEAKER WOOFER20WA-M313 8OHMS 160MM
1-4	SS-717718	SPEAKER TWEETER66CT-M313 8OHMS 66MM
1-5	ZS-717720	T1BI40 x 20 BLACK (SPEAKER FIX)
1-6	TS-717716	CUSHION
1-C1	EC-717719	C EC 3R3 50DC W/LEAD WIRE



SW-M515

REF. NO.	PART NO.	DESCRIPTION
1-1	TS-717700	GRILLE FRONT LEFT SW-M515
1-1-B	TS-717698	GRILLE FRONT LEFT-B SW-M515-B
1-2	TS-717699	GRILLE FRONT RIGHT SW-M515
1-2-B	TS-717697	GRILLE FRONT RIGHT-B SW-M515-B
1-3	SS-717701	SPEAKER WOOFER20WA-M515 8OHMS 160MM
1-4	SS-717702	SPEAKER TWEETER 5TA-M515 6OHMS 47MM
1-5	ZS-717720	T1BID40 x 20 BLACK (SPEAKER FIX)
1-6	TS-715317	PACKING WOOFER SW-M50-B (WOOFER)
1-7	TS-717706	PACKING TWEETER (TWEETER)
1-8	EJ-712353	TERMINAL BOARD
1-9	ZS-712351	T SCREW 40 x 14 (TERMINAL BOARD FIX)
1-10	TS-714351	CUSHION FELT (8 PIECES) SW-M50-B
1-L1	EO-717703	COIL 0.62MH
1-C1	EC-717705	C EC 4R7 50DC



SYMBOL FOR COLOR VARIATION
NON : SILVER
-B : BLACK

AKAI ELECTRIC CO., LTD. 12-14, 2-Chome, Higashi-Kojiya, Ohta-Ku, Tokyo, Japan Printed No. 860212-G1-1000
TEL Tokyo (742) 5111 CABLE HIFIAKAI TOKYO TELEX J26261 Printed Date February 27, 1986 Printed in Japan